

## **Historic, Archive Document**

Do not assume content reflects current  
scientific knowledge, policies, or practices.





National  
Agricultural  
Library

U.S. Department  
of Agriculture  
Beltsville, MD  
20705

# AGRICULTURAL LIBRARIES INFORMATION NOTES

Volume 13  
Number 6/7

June/ July 1987

ISSN: 0095-2699

## THE NATIONAL AGRICULTURAL TEXT-DIGITIZING PROJECT: A COOPERATIVE PROJECT OF THE NATIONAL AGRICULTURAL LIBRARY AND FORTY-ONE LAND-GRANT LIBRARIES

### Introduction

by  
Pamela Andre,  
Chief, Information  
Systems Division,  
National  
Agricultural  
Library,  
Beltsville,  
Maryland 20705  
(301) 344-3813

Much of the U.S. and world literature of agricultural research and application remains difficult to access because of the cost of human labor for in-depth indexing and/or abstracting. Much of that same literature is subject to eventual disappearance because of the disintegration of the acidic paper on which it appears.

The National Agricultural Library and 41 land-grant libraries have entered into a cooperative project to test new methods of capturing full texts and images in digital format for publication through media such as CD-ROM disks. Use of the CD-ROM laser disk as a storage and dissemination medium allows for rapid local access without telecommunications charges and allows for sophisticated Boolean searching of the full text. The database can be retained in a standard format and utilized in other ways in the future. Both the CD-ROM disks and retained database also provide the possibility of preservation in a medium more stable than paper.

### Background

The Smithsonian Institution has developed a prototype scanning methodology which converts full text, including graphics and illustrations, to a bit-mapped digitized page image and then processes that page image through a "recognition engine" which converts the text to digitized ASCII code. The ASCII code is then processed by computer software and indexed. The resulting digitized text, bit-mapped page images, and indexes allow for full-text searching of the information on microcomputer workstations using Boolean search operators. The ASCII text, bit-mapped page images, and indexes can be stored on a variety of electronic storage devices for dissemination and retrieval, such as write-once optical disks, CD-ROM disks, magnetic tape or disk, or digital videodisks.

Under an agreement with the Smithsonian Institution, Science Applications International Corporation (SAIC) has begun to market

the system described above. On September 12, 1986, a panel of land-grant library directors was brought together to see the system demonstrated at the National Agricultural Library. In addition, two consultants, Nancy L. Eaton, Director of Libraries, University of Vermont, and Edwin Brownrigg, Director of the Division of Library Automation, University of California Office of the President, visited the Smithsonian Institution to see the entire system demonstrated and to evaluate the system's potential for use with agricultural information. At the conclusion of the meeting, participants unanimously approved NAL's proposal to investigate this technology further in a cooperative program with land-grant libraries.

Subsequent to the September meeting, NAL entered into a Cooperative Agreement with the University of Vermont and State Agricultural College (UVM) to conduct the National Agricultural Text Digitizing Project (NATDP). Under the terms of the agreement, Nancy Eaton became project manager for the organizational tasks associated with the project and assumed responsibility for its evaluation. Pamela Andre, Chief of the Information Systems Division of NAL, became the principal investigator with responsibility for the operational aspects of the project at NAL and in the land-grant libraries that have committed to participate in the project. Clifford A. Lynch, Assistant Director of the Division of Library Automation, University of California Office of the President, has agreed to be technical consultant for the duration of the project. An advisory panel of land-grant library directors will advise on the design of the project and the selection of agricultural information to be digitized and distributed on CD-ROM disks.

### Purpose of the Project

The purpose of this study is to determine whether it is now possible to provide widespread in-depth access to the literature of agriculture while at the same time preserving it from rapid deterioration, by utilizing scanning, digitizing, indexing, and retrieval systems. The study will determine the costs of doing so and the limitations of the processes used. The study

will compare retrieval from the ASCII text only for searching, display, and printing versus ASCII text for searching and bit-mapped page image for exact page display and printing. It will analyze retrieval satisfaction and accuracy and determine production costs. In addition it will examine possibilities for electronic document delivery of the digitized collections via telecommunications networks, along with the use of telecommunications as a complement to optical publishing for material update and distribution. The project will perform the following major functions:

1. Creating full-text image & ASCII databases, and adding bibliographic records of the collections to the OCLC database.
2. Separating the recognition process from the scanning process.
3. Retaining all data in a general format, so that it can feed a multiplicity of distributions (including those filling the special needs of land-grant institutions).
4. Exploring the relationships between cataloging of collections versus cataloging of the image/text database and indexing.
5. Exploring multiple distributions for the same data.
6. Examining methodologies of error correction using computer recognition.

Although the scanning system developed by the Smithsonian Institution and now marketed by SAIC is very promising, it is still a developing technology. Reliability of the equipment, production costs, and effectiveness of the indexing and retrieval software currently available have not been field tested. The purpose of the project is to utilize this technology in a demonstration environment, to gain experience with the technology, and to gather concrete information on production costs and software retrieval design.

### Stages of the Project

The National Agricultural Text Digitizing Project (NATDP) will be broken into three distinct phases:



Phase 1: Pilot Project. The pilot project will test the scanning hardware and at least one specific indexing/search software system with a specific collection on aquaculture. The National Agricultural Library will install scanning equipment and will begin scanning aquaculture materials. It will produce one or more CD-ROM disks, and will distribute the disks and CD-ROM players to the 41 participating land-grant libraries. The libraries will test the microcomputer/CD-ROM workstations and the search logic for effectiveness in working environments. The University of Vermont will evaluate the results. Central scanning equipment was ordered in July 1987. Scanning should begin by January 1, 1988, with a test run distribution of the first CD-ROM disks by March 1988, and full distribution by July 1988.

Phase 2: Refinement of the System and Collection Development. This phase will use the evaluation of the first phase to determine what other recognition procedures and/or retrieval software should be tried with subsequent collections. It will then concentrate on creating a permanent central scanning facility at NAL to scan agricultural collections for NAL, land-grant libraries, and appropriate Federal and State agencies. Collections already under discussion, in addition to aquaculture, are acid rain, food irradiation, and agent orange. Several different indexing/search software systems may be used and compared, such as SAIC/Fast Find Plus, OCLC's SC450, and SilverPlatter. Scanning and production should begin after the first full pilot distribution, July 1988.

Phase 3: Telecommunications. Clifford Lynch will make a state-of-the-art survey of telecommunications options for transmission of CD-ROM full-text digital data (a) between a library and other parts of its campus using a campus network, and (b) between libraries geographically separated. Based upon the results of his report, one or more pilot projects will be planned to test the most promising options. The report is due by November 1987; the pilot is expected to begin by May 1988 (funds permitting).

For each collection which is scanned and distributed, a bibliographic record will

be added to the OCLC database, so that the collections will be accessible through the OCLC Interlibrary Loan network. The bibliographic records also can be added to other network databases via tape loading for access by network members as well.

### Technology to be Employed

The technology to be tested has several components:

1. The scanner (e.g., Ricoh, Palantir) which scans the full text and stores it as exact page images that can be reproduced on a CRT screen.
2. The intelligent "recognition engine" (e.g., Palantir, Kurtzweil) which converts the scanned page images to digitized ASCII code that can be searched on a microcomputer using key word or Boolean search software for indexing and retrieval.
3. Software for automated indexing and key word or Boolean searching. Examples currently available are Fast Find Plus and OCLC's SC450.
4. Storage of the ASCII version of the text, the page image version of the text (or relevant subsets such as illustrations), and the search retrieval software on optical media. Available optical media include digital videodisks, CD-ROM disks, and write-once-read-many (WORM) disks. The project will use a combination of write-once drives for scanning and archival use and CD-ROM disks for distribution. Existing commercial vendors such as 3M will produce the CD-ROM disks.
5. A microcomputer with a CD-ROM reader and a laser printer attached, for searching, retrieval, and printing of the retrieved text. NAL and each participating land-grant library will have an appropriately configured workstation which contains these devices.

We at NAL believe this technology holds great promise for preservation, distribution and access to library materials, and we are very excited and pleased that so many in the land-grant library community are willing to share their resources and expertise in this exploratory project.

## Background of Participants

Nancy L. Eaton, Project Manager (802) 656-2020



photo: J. Swab

**Nancy L. Eaton**

Ms. Eaton currently is Director of Libraries at the University of Vermont and State Agricultural College. She is a past president of the Library and Information Technology Association (LITA), a division of the American Library Association, and was the first chair of LITA's Optical Information Systems Interest Group. She has held previous positions with responsibility for library automation at the University of Texas at Austin, the State University of New York at Stony Brook, and the Atlanta Public Library. She has been responsible for implementation of two integrated library systems (DataPhase and NOTIS) and has implemented a full-service Automated Reference Center in the UVM Libraries, which includes laser-based end-user systems and online end-user systems.

Pamela Andre, Principle Investigator (301) 344-3813



**Pamela Andre**

Ms. Andre is Chief of Information Systems Division, National Agricultural Library. She worked in the Systems Office of the Library of Congress before assuming her position at NAL in 1984. Her previous experience with optical/laser technology includes the NAL experiment with digital videodisk production of the Pork Industry Handbook, production of AGRICOLA on CD-ROM with SilverPlatter, and an in-process experiment with Disclosure for production of AGRICOLA on CD-ROM.

Clifford A. Lynch, Technical Consultant (415) 642-9485

Mr. Lynch is Assistant Director for the Division of Library Automation, University of California Office of the President. He is a specialist in telecommunications technology and library automation. His experience includes the design and development of the MELVYL online catalog for the University of California system and design of telecommunications networks for online access to the catalog for all campuses of the system. Mr. Lynch will serve as technical consultant for the project.

### Advisory Panel

The advisory panel which will provide guidance to the Project Manager and Project Investigator is composed of the following individuals:

H. Joanne Harrar, Director, Univ. of Maryland Libraries.  
Robert Geiman, Director, Univ. of Alaska Libraries.  
Noreen Alldredge, Director, Montana State Univ. Libraries.  
Thomas Shaughnessy, Director, Univ. of Missouri Libraries.  
John Beecher, Director, North Dakota State Univ. Libraries.

The panel members were selected for their experience with library automation, agricultural literature, and telecommunications technology. They also represent diverse geography and sizes of libraries.



## REPORT ON THE AGRICULTURAL ECONOMICS REFERENCE ORGANIZATION (AERO) MEETING

AERO held its fourth Workshop/Meeting at NAL April 27-29, and 15 librarians from 13 states participated: Ntam Baharanyi (Tuskegee U), Tuskegee, AL; Patricia Brandt (OSU), Corvallis, OR; Jennie Brogdon (NAL), Beltsville, MD; Susan Casement (UC), Davis, CA; Jeffrey Cunningham (UM), College Park, MD; Grace Dote (UC), Berkeley, CA; Sue Durden (TX A&M), College Station, TX; Priscilla Geahigan (Purdue U), West Lafayette, IN; Janet Hirzel (SDSU), Brookings, SD; Maurice Klein (OSU), Columbus, OH; Louis Letnes (UM), St. Paul, MN; Debra Moore (ISU), Ames, IA; Maria Porta (UI), Urbana IL; Ellen Reneke (Clemson U), Clemson, SC; and Pauline Sondag (MSU), East Lansing, MI.

Jennie Brogdon of NAL hosted the event, arranged for speakers and tours of NAL and the Agricultural Research Center, and co-chaired the meeting with Pauline Sondag. The Farm Foundation provided financial support which enabled some participants to attend.

The workshop program included presentations by Grace Dote, on "Obtaining Ephemeral Materials"; by Diane Johnson of Pioneer Hi-Bred International, Inc., on the "Agribusiness USA" database; by Robert Rovinsky of the Economic Research Service (ERS), USDA, on electronic databases available from ERS.

Presentations by NAL staff included expert systems by Samuel T. Waters, Associate Director; the Agricultural Trade and Marketing Information Center by Mary Lassanyi; demonstrations of new technologies with NAL applications, including laser video disk for full-text databases, AGRICOLA on CD-ROM, and expert systems by Lee Decker; an AGRICOLA demonstration by Charles Bebee; and a variety of developments and projects in technical services by staff from the Acquisitions/Serials, Cataloging, and Indexing Branches.

The next AERO Workshop/Meeting will be held at Texas A & M University, College Station, TX, in September or October 1988; Sue Durden will host it.

For more information on the program or business meeting contact Grace Dote, Librarian, Giannini Foundation Library, 248 Giannini Hall, University of California, Berkeley, CA 94720. 

### AQUACULTURE ON CD-ROM: YOUR RECOMMENDATIONS DESIRED

The National Agricultural Library is currently gathering aquaculture materials (primarily non-copyright publications) to be considered for the first CD-ROM disk in the National Agricultural Text-Digitizing Project.

We would like to give individuals the opportunity to recommend publications for possible inclusion on the CD-ROM disk.

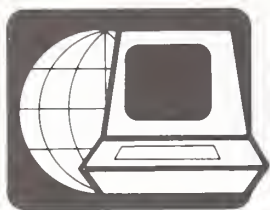
Recommendations for publications on aquaculture-related topics may be short circulars and bulletins or more extensive works in book form. Also being considered for inclusion are State Aquaculture Development Plans or publications on State legislation involving aquaculture.

If you have any publications that you would like to donate to the library for possible inclusion on the compact disk, please send at least two copies to:

Debbie Hanfman  
NAL, Aquaculture Information Center  
Room 111, ATTN: CD-ROM Project  
Beltsville, MD 20705  
(or call: 301-344-3704)

The library staff knows that your expertise in the selection of aquaculture publications will ensure that the disk will cover the most important literature currently available. Thank you for your help in this pioneering project!





## AGRICOLA

### AGRICOLA ON CD-ROM

by  
T.S. Sibia  
Bio/Ag Department  
Shields Library  
University of California  
Davis, CA 95616  
(916) 752-6166




photo: J. Swab

The University of California, Davis campus, is a land-grant university and the principal agricultural campus within the U.C. system. So it was an important day recently when the Biological and Agricultural Sciences Department in the General Library acquired SilverPlatter's AGRICOLA on CD-ROM (a notice of its availability appeared in Agricultural Libraries Information Notes, 13 (3): 8, March 1987). The compact disk station is located near the Bio/Ag Reference Desk and is available to students and faculty during the hours the library is open.

The system is simple to use and easily explained to patrons. Every quarter we have a thousand students from a few undergraduate science classes descend upon the Library to work on short experimental projects. We have encouraged some of them to try AGRICOLA on compact disk, and these freshmen and sophomores are quickly able to search independently. They find the

function keys which allow them to FIND, SHOW, or PRINT citations clearly defined. Response to the AGRICOLA on CD has been very positive; the most frequent comment we hear is, "This is great!"

We recently received updated software which has corrected some of the initial program bugs. There are one or two remaining, but we are confident that they will be fixed with the next update. Downloading, which became available on the updated software, is easily accomplished. The continued success of AGRICOLA on CD is dependent upon the quarterly updates being published in a timely fashion. We are extremely happy with AGRICOLA on CD. It is heavily used and is proving able to answer questions much better and much more quickly than its printed equivalent. It has been in use for such a short time that its impact upon our regular online database search services is not yet known. In any case, our undergraduate student population will benefit greatly by its use.

UCD has a well established end-user training program for searching databases external to the University. Classes are taught on the basics of online searching, and many of the concepts useful for searching AGRICOLA in a compact disk format are explained. Graduate students and faculty can then do their own online database searching from their homes and offices. By using AGRICOLA on CD as undergraduates, these students are becoming familiar with database searching much earlier in their educational careers. It will prove even more useful to those that continue on to graduate school. 

### DISK or DISC?

The traditional spelling, "disk," will be used in ALIN for all media whether optical, video, digital, audio, or other. The alternative "disc" will only be used for commercial products which have "disc" as part of their brand names as promoted by their producers and advertisers. In this practice ALIN follows the lead of major newspapers, journals, and publishers.



## NAL TO ACCEPT ILL REQUESTS VIA ELECTRONIC MAIL

On October 1, 1987, the Lending Branch of NAL will begin to accept Interlibrary Loan requests submitted through the following four electronic mail systems (with address codes): ALANET, ALA1031 (SYSTEM 41); DIALCOM, NAL-LENDING AGS3058 (SYSTEM 57); EASYLINK, 710-828-0506; ONTYME, NAL/LB.

Requests will be accepted only from libraries, and they must comply with established routing and referral policies and procedures. The transmitting library will pay all fees incurred during the creation of requests and communication with NAL.

To receive a copy of the announcement of this service, Information Alert 87-13, June 2, 1987, which includes a sample format for ILL requests, a list of required data elements, and the addresses of the electronic mail networks, or for additional information, please contact: Ms. Carol Ditzler, Head, Lending Branch, National Agricultural Library, Beltsville, MD 20705. Phone: (301) 344-3503.



## NAL ANNOUNCES A NEW TELEPHONE NUMBER & OTHER ACCESS FOR REFERENCE SERVICE

The telephone number for the Reference Desk at NAL has been changed to 301-344-4479. Reference Service is available between the hours of 8:30 a.m. and 4:30 p.m., Monday through Friday, Eastern time. The number for catalog lookup and publication requests remains 301-344-3755.

Reference questions may also be sent by electronic mail via Dialcom, Inc., terminal 57 (CSIN), mailbox AGS 3099 or terminal 41 (ALANET), ALA 1030.

For answers to reference questions relating to a specific information center, call 301-344-3704. Information Centers at NAL are: Agricultural Trade & Marketing; Alternative Farming Systems; Animal Welfare; Aquaculture; Biotechnology; Critical Agricultural Materials; Family; Fiber; Food and Nutrition; Food Irradiation; Horticulture; and Rural Information Center.



## EXPERT SYSTEM TRAINING COURSE OFFERED

NAL has announced a training program to prepare librarians to develop small expert systems in fields related to agriculture. These electronic advisors will assist users in locating reference books and materials likely to contain information relevant to their questions.

The 5-day program will be offered from September 28 to October 2, 1987, at NAL in Beltsville, Maryland, if enough applications are received by September 14. Trainees will attend 2 days of lecture and hands-on laboratory sessions, followed by 3 days of developing their own systems under supervision. By the end of the program, they will be familiar with expert systems, and they should leave with a well-developed prototype in a subject area in which they have expertise, plus a plan for its completion. NAL staff will serve as mentors and provide limited telephone consultation during the follow-up period.

Sponsoring libraries or attendees agree to these obligations: to pay their own transportation and living costs; to acquire specific software and complete an advisory system within two months after the course; and to make it available to NAL without restriction as to further revision, dissemination, or sale.

NAL plans to issue these reference advisors, along with those prepared in-house, on separate floppy disks for use by libraries likely to receive questions in the fields covered. NAL seeks eventually to obtain comprehensive coverage of the field of agriculture, and to issue the advisors together on one compact disk.

Classes will be limited to 20 persons from food, agriculture, and forestry libraries, broadly defined. If demand warrants, other classes may be offered later.

NAL will supply a list of Beltsville-area motels upon request. For further information contact: Robert Butler, Leader, Training and Education, National Agricultural Library, Room 203, Beltsville, MD 20705; 301-344-3937.





In one of the sessions of the April 21-24 Meeting Bill Feidt of NAL discusses coordination of NAL systems and FS INFO systems with participants from the various network centers and the central unit. Feidt, Whipple, Bowers, Scharmer, Denfeld, Fehleley, Barney, Dew, Hyland, Rutherford, (and backs to the camera), Johnson, Ayer, and Close. (L-R)

(Below) Joseph Howard, NAL Director talks with Sandy Bowers at the reception held for the meeting participants.



Dana, Scharmer, Johnson, Ayer, Duckett, Dew, Bowers, Hyland, Denfeld, Galvin, and Kessenich watch a demonstration of the Forest Service Photographs Laser Video Disk, produced by NAL and soon to be released. The principal contents are 34,000 photographs from the FS collection at NAL with searchable access. (L-R)

#### MEETING ATTENDEES

Carol Ayer, INFO Central (NAL);  
Frances J. Barney, INFO RM;  
Sandra L. Bowers, BLM Library;  
Elizabeth Close, INFO INT;  
Bob Dana, INFO RM;  
Kay Denfeld, INFO NW;  
Sheryl Dew, NE Station;  
Barbara Duckett, INFO Central;  
JoAnne Fehleley, INFO ITF;  
Dennis Galvin, INFO PSW;  
Floyd Henderson, INFO NC;  
Ruth Hyland, INFO INT;  
Chris Johnson, WO InS;  
Judy Kessenich, INFO FPL;  
Ginger Rutherford, INFO SOUTH;  
Roger Scharmer, INFO FPL;  
Seung Ja Sinatra, INFO Central;  
Linda Whipple, BLM Library.



Liz Close and Dennis Galvin with Sarah Thomas, Chief, Technical Services Division, NAL. (Left)

For more information on the FS INFO network see the article by Ginger Rutherford in ALIN, 13 (4): 1-3, April 1987.



## FS INFO CENTRAL UNIT DEDICATED AT NAL



At the ceremony dedicating the FS INFO Central Unit at NAL on April 22, 1987, Carol Ayer, Joseph Howard, Smokey, and Charles R. Hartgraves, Associate Deputy Chief, Forest Service, cut the ribbon. ALIN photographer, Dan Starr, catches the ribbon as the cut sections begin to float to the floor. (Left)

Central Unit staff: Seung Ja Sinatra, Carol Ayer, and Barbara A. Duckett, with Chris A. Johnson, FS INFO Project Leader. (Right)



Group portrait: (below, l-r) Floyd Henderson, Carol Ayer, Ruth Hyland, Roger Scharmer, JoAnne Feheley, Smokey, Judy Kessenich, Bob Dana, Frances Barney, Ginger Rutherford, Kay Denfeld, Chris Johnson, Dennis Galvin, Liz Close, and Sheryl Dew.



**AD HOC ADVISORY COMMITTEE OF THE ANIMAL WELFARE  
INFORMATION CENTER OF THE NATIONAL AGRICULTURAL LIBRARY  
MEETING, MAY 15, 1987**



**Jack L. Albright**  
Professor, Dept.  
Animal Science  
Purdue University



**Stanley O. Curtis**  
Professor, Dept.  
Animal Science  
Univ. of Illinois



**Fritz P. Gluckstein**  
Coordinator, Veter-  
inary Affairs, Nat.  
Library of Medicine



**Billy E. Hooper**  
Exec. Director,  
Assn. Amer. Vet.  
Medical Colleges

The meeting opened with background information about NAL's Animal Welfare Information Center (AWIC), and its proactive approach to its mission. (See ALIN, 13 (1/2):1-4, Jan/Feb 1987.) Developments since the announcement of the formation of the Center include planning for a variety of information products such as a brochure explaining the program (which is now available upon request), bibliographies, and interpretations of animal welfare regulations. The Center has contracted with the University of Illinois to create two publications, and perhaps others: "Laboratory Animal Welfare Research Guide" and "Laboratory Animal Welfare Training Resource Directory." Discussions centered on the scope of the AWIC program and the Center's short-term goals. It was decided that NAL should continue to focus on animal rights/animal welfare of all species including food and companion animals as well as laboratory animals. The participants

**Hugh S. Johnson, American Farm Bureau Federation, and Keith Russell, Chief, Public Services Division, NAL (below)**



**Robyn Frank, Head, Information Centers Branch, and Samuel T. Waters, Associate Director, NAL (below)**







**Edward O. Price**  
Professor, Dept.  
Animal Science  
Univ. Cal. Davis



**H. Graham Purchase**  
USDA, ARS, BA  
BARC-West, Belts-  
ville, MD



**Richard Rissler**  
USDA, APHIS, VS  
Asst. Director  
Domestic Program



**Christine Stevens**  
Animal Welfare  
Institute, Wash-  
ington, DC

determined five priorities for the next four months, listed in the order of importance: 1. Database development, seeking important publications, cataloging and indexing them; 2. Building a training resources information bank; 3. Publication of pathfinders, brief bibliographies focused on special interest topics; 4. Filming a 10-minute videotape describing the services of AWIC; and 5. Preparing reference briefs addressing subjects of current interest.

For additional information contact: Jean Larson, Coordinator, Animal Welfare Information Center, Room 304, National Agricultural Library, Beltsville, MD 20705. Or call (301) 344-3704.

Participants not pictured were Albert E. New, Exec. Director, AAALAC, Bethesda, MD; Barbara A. Rich, Asst. Exec. Director, Nat. Assn. Biomedical Research, DC; and Carol Boast, University of Illinois.

NAL staff associated with the Animal Welfare Information Center, (below, l-r) Jesse Ostroff, Judi Zidar, Janice Swanson, Elizabeth Wolf, and Louise Reynells (not pictured Elizabeth Goldberg and Jean Larson).



**Ray Stricklin**  
Asoc. Prof.  
Dept. Animal Sci.  
Univ. Maryland

**Leroy Walters,**  
Dir., Cent. for  
Bioethics/Kennedy  
Inst. Ethics  
Georgetown Univ.



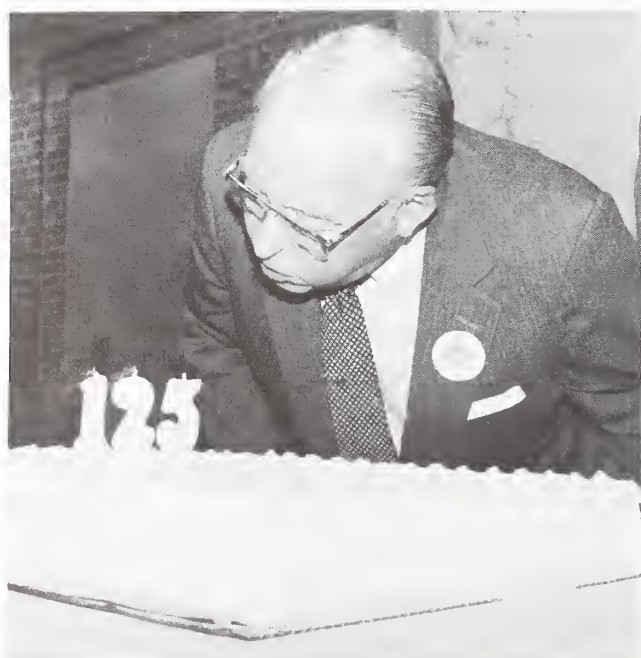
## 125TH ANNIVERSARY OF USDA, NAL, AND THE LAND-GRANT COLLEGES

On May 15 the United States Department of Agriculture celebrated the 125th Anniversary of its founding when Abraham Lincoln signed the organic act in 1862. That brought to fruition George Washington's proposal in his farewell address on December 7, 1796, that a Federal Board of Agriculture be established to collect and diffuse agricultural information for the improvement of the Nation's agriculture. The same act provided for the creation of a departmental library which Secretary Orville L. Freeman proclaimed the National Agricultural Library 100 years later.

On July 2, 1862, President Lincoln signed the Morrill Land-Grant College Act, which established a college in each state to educate the "ordinary citizens." The act lifted agricultural training to the level of a scientific endeavor.

The Director and staff of the National Agricultural Library are proud of their association with the scientific progress, educational success, and improvement of the nation's agriculture achieved by the Department of Agriculture and the Land-Grant Universities and salute them on the occasion of their 125th Anniversary.

**Secretary Lyng blows out the candles on the official USDA Anniversary cake.**



USDA photo: Byron Schumaker



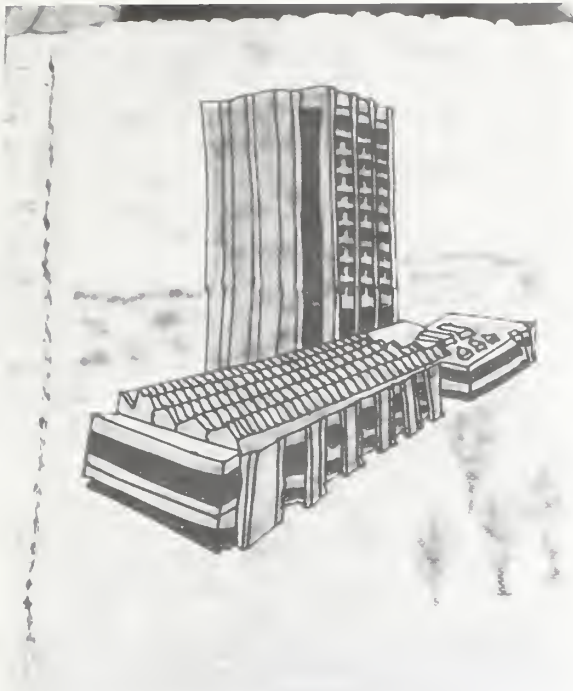
**NAL celebration organizer Alan Fusonie holds a "Columbia" Planetree planted to commemorate the 125th Anniversary, and Morton Tepper (NAL retired) watches as Joe Swab, representing the Associates NAL, Inc., and Sam Waters, Associate Director, begin the planting.**

**Mary Silva, Secretary, Director's Office, Sam Waters, Associate Director, NAL, and Josephine McDowell, Library Technician, Lending, enjoy refreshments provided by the Associates NAL, Inc., at the NAL Anniversary Party.**





## THE 125TH ANNIVERSARY CELEBRATIONS



The NAL 125th Anniversary cake, frosted with a realistically colored drawing of the National Agricultural Library. Holly Irving, of the contract staff from the University of Maryland working with the Food and Nutrition Information Center, serves the cake.



Secretary of Agriculture Richard E. Lyng hosted the USDA celebration which began before a standing-room-only audience in the Department's Jefferson Auditorium. The principal speakers, Senator Robert Dole and Representative Jamie Whitten, emphasized the importance of the Department in US agricultural history, the present economy, and for the future. Messages on the same theme from former Secretaries Block, Bergland, and Freeman (who were present), and Butz were distributed to the audience, and one from President Reagan was read. The celebration moved to the Patio of the Administration building where Senator Rudy Boschwitz also spoke. A highlight of the ceremonies was the giving of awards to 130 persons, 10 of whom had served more than 50 years in the government. More than 1,000 participants enjoyed the Anniversary refreshments. NAL's celebration came a week later on May 25, and consisted of a ceremonial tree-planting, a slide-lecture on NAL history by Alan Fusonie, Head, Special Collections, and a party.



Harry Dengler (USDA retired) and Carole Shore, Coordinator, Food Irradiation Information Center, join the NAL party.





## STAFF UPDATE

### ROBERTA RAND, ISIS COORDINATOR



On March 29, Roberta Rand joined the NAL staff as the Coordinator of NAL's new integrated library system, since named Integrated System for Information Services (ISIS). She has been working with NAL staff ever since on implementation, which should be ready to evaluate with a test database in September. She said the schedule will then be to load NAL bibliographic records, beginning in December, have it ready for public access in NAL by June 1988, with eventual access for ARS, other USDA Libraries, and select patron dial-in. This will be an online catalog with both cataloging and indexing records, and will be an addition to current online access via BRS and DIALOG and Silver-Platter's CD-ROM, which will not be affected. Thereafter ISIS will accomodate Circulation, Serials Control, Acquisitions, and other applications.

Prior to coming to NAL, Ms. Rand worked for OCLC in California, where she marketed OCLC's mini-computer based systems for the

Pacific Network. Previously she worked for the Bibliographical Center for Research, a multistate library network headquartered in Denver, CO, where she marketed databases and provided database and consultant services.

Ms. Rand is a graduate of Rutgers University where she received her MLS in 1979, and her BA with majors in European History and Art History. She is active in the American Library Association and chairs the Legislation and Regulations Committee of the Library and Information Technology Association.

### CAROLINE EARLY APPOINTED HEAD OF THE ACQUISITIONS AND SERIALS BRANCH



photo: J. Swab

On June 22, 1987, Caroline Early, became the Head of the recently reorganized Branch combining Acquisitions and Serials. As Sarah Thomas, Chief, Technical Services Division, said when she announced the appointment, Caroline brings to NAL experience in both areas from her former positions at New York University and George Washington University.

At NYU she was responsible for a reorganization combining monographic and serial acquisitions, and directed a project to automate the acquisition and receipt of serials. Her experience with both GEAC and RLIN systems will be of value as NAL develops its integrated library system.



At GWU Ms. Early was Assistant Head of Acquisitions with responsibility for gifts and monographic orders. Prior to that she had cataloged monographs and rare books.

Ms. Early received her Master of Library Science from Indiana University, and a BA, with emphasis in foreign languages, particularly Russian, German and Norwegian, from Evergreen State College, in Olympia, Washington. She found the experiential style of education at Evergreen, with its emphasis on seminars and self-study courses, most challenging and rewarding. Another exciting experience, she says, was working for two months on the USIA exhibit in Moscow in the summer of 1975.

Ms. Early is active in the library profession where she is chairing the Publisher/Vendor--Library Relations Committee of the Resources and Technical Services Division of the American Library Association. In her personal world, she was recently married to Peter Lafen, who works in Washington, DC, as a lobbyist. One of her favorite activities is white-water kayaking.

### GILLIAN WHITCHURCH

"Hi, it is nice to meet you today!" are the first words Gillian Whitchurch types on the IBM-PC as the interview for this article began. She is deaf and this interviewer is unable to communicate in the various languages available to her. So the PC serves as the medium for this writing on multiple levels.

Ms. Whitchurch is a student at Gallaudet University where she is majoring in nutrition science and will receive her Bachelor of Science degree in 1988. Since June she has also been working as an intern in the Food and Nutrition Information Center (FNIC) of NAL, where she has been getting valuable experience in her career field while providing just as valuable support to the programs of FNIC. This is part of Gallaudet's Experiential Programs Off Campus (EPOC).

At NAL Ms. Whitchurch has set objectives for her work-study program with FNIC and Gallaudet advisors, planned activities for her own and NAL's benefit, and kept a



Gillian Whitchurch

daily log of achievements and progress. After an orientation to NAL, FNIC, and their products and services, and training in AGRICOLA and the sources of nutrition information, she now responds to requests for materials, creates exhibits and displays, performs on-line searches, and works with various software packages such as database management. She will soon be writing reviews of nutrition software packages with the intention of instructing users in their value and applications.

Ms. Whitchurch came to the D.C. area from Yarmouth, Nova Scotia, where her family owns the famous Harris's Seafood Restaurant and another called the Tasty n' Quicky. Her hobbies are cooking, sewing and crafts, which she learned from her mother and grandmother. "They are excellent cooks--especially seafood. MMMM," she types.

She misses her home on a lake at Yarmouth, and found D.C. a culture shock with all of its crowd and rush. She finds Annapolis, MD, more akin to her home town, but also loves to walk around the mall and the beautiful museums in D.C. She says that working at NAL is a "super experience." All of the staff in the Library who work with Ms. Whitchurch agree that it's been a "super experience" having her here.



## NEW BIBLIOGRAPHIES

### QUICK BIBLIOGRAPHIES

The bibliographies in this series are primarily computerized online as batch bibliographies emanating from searches performed by the NAL reference staff in response to customer requests. Searches are selected for inclusion based on the currency of the topic, interest among clientele, relative length and probable value to a larger audience. Revisions or updates will be renumbered and reannounced. Only one copy of a title will be sent; however, requesters may make copies. To request a copy of a Quick Bibliography, circle the desired titles below and send an addressed label to:

Reference Branch, Room 111  
National Agricultural Library  
Beltsville, MD 20705

NAL--Q.B.--87-37. JOJOBA, 1981-1986. 210 citations from AGRICOLA. Languages none excluded. Prepared by Henry Gilbert. April 1987. Updates 86-17.

NAL--Q.B.--87-38. VEGETABLE GARDENING, 1984-1986. 187 citations from AGRICOLA. English only. Prepared by Jayne T. MacLean. April 1987. Updates 85-24.

NAL--Q.B.--87-39. HERBICIDES: ECOLOGICAL EFFECTS, 1979-1986. 251 citations from AGRICOLA. English only. Prepared by Jayne T. MacLean. April 1987. Updates 86-67.

NAL--Q.B.--87-40. CANOLA: LOW ERUCIC ACID RAPESEED, 1970-1986. 217 citations from AGRICOLA. English only. Prepared by Jayne T. MacLean. April 1987.

NAL--Q.B.--87-41. COMPOSTS AND COMPOSTING OF ORGANIC WASTES, 1979-March 1987. 231 citations from AGRICOLA. English only. Prepared by Jayne T. MacLean. May 1987. Updates 86-41.

NAL--Q.B.--87-42. WORLD FOOD SUPPLIES, 1980-1987. 231 citations from AGRICOLA. English only. Prepared by Jayne T. MacLean. May 1987.

NAL--Q.B.--87-43. CONSERVATION TILLAGE-(INCLUDING MINIMUM AND NO-TILLAGE), June 1985-March 1987. 441 citations from AGRICOLA. English only. Prepared by Jayne T. MacLean. May 1987. Updates 86-43.

NAL--Q.B.--87-44. LEGUMES IN CROP ROTATIONS, 1981-March 1987. 160 citations from AGRICOLA. English only. Prepared by Jayne T. MacLean. May 1987. Updates 86-21.

NAL--Q.B.--87-45. TILAPIA CULTURE, 1970-March 1987. 91 citations from AGRICOLA. Languages none excluded. Prepared by Deborah T. Hanfman. May 1987. Updates 86-38.


NAL--Q.B.--87-46. SHELLFISH CULTURE, 1979-1986. 152 citations from AGRICOLA. English only. Prepared by Deborah T. Hanfman. May 1987. Updates 86-48.

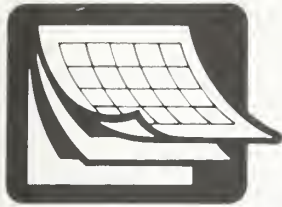
NAL--Q.B.--87-47. AQUACULTURE IN RECIRCULATING SYSTEMS, 1979-March 1987. 25 citations from AGRICOLA. English only. Prepared by Deborah T. Hanfman and Tony P. Mazzaccaro. May 1987.

NAL--Q.B.--87-48. AQUACULTURE: DEVELOPMENT PLANS AND MARKETING, 1970-1986. 68 citations from AGRICOLA. Languages none excluded. Prepared by Deborah T. Hanfman. May 1987.

NAL--Q.B.--87-49. TROUT DISEASES AND CONTROL, 1970-1986. 169 citations from AGRICOLA. Languages none excluded. Prepared by Deborah T. Hanfman. May 1987.

NAL--Q.B.--87-50. CATFISH DISEASES AND CONTROL, 1979-1986. 47 citations from AGRICOLA. English only. Prepared by Deborah T. Hanfman. May 1987.

NAL--Q.B.--87-51. RABBIT PRODUCTION FOR FOOD AND FUR, 1979-March 1987. 173 citations from AGRICOLA. English only. Prepared by Jerry Rafats. May 1987. Updates 83-08. 



## AGRICULTURE DATEBOOK

August 13-18: AQUA NOR '87 (INTERNATIONAL CONFERENCE AND EXHIBITION ON FISH FARMING EQUIPMENT AND TECHNIQUES.) Trondheim, Norway. Contact: The Norwegian Fishfarmers Association, P.O. Box 851, N-7001, Trondheim, Norway.

August 15-19: INTERNATIONAL CONFERENCE ON DRYLAND FARMING. Amarillo/Bushland, TX. Contact: USDA Conservation and Production, Research Laboratory, PO Drawer 10, Bushland, TX 79012.

September 13-17: 117th ANNUAL MEETING OF THE AMERICAN FISHERIES SOCIETY. Winston-Salem, NC. Contact: American Fisheries Society on (301) 897-8616.

September 14-16: 17th LIQUID FEED SYMPOSIUM. Dallas, TX, Sheraton Downtown. Contact: American Feed Industry Association, 1701 N. Ft. Myer Drive, Suite 1200, Arlington, VA 22209.

September 14-17: 101st ANNUAL INTERNATIONAL MEETING & EXHIBITION OF THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS. San Francisco, CA, Cathedral Hill Hotel. Contact: AOAC, 1111 N. 19th Street, Suite 210, Arlington, VA 22209.

September 20-23: ADVANCES IN CLINICAL NUTRITION MEETING. St. Charles, IL, Pheasant Run Convention-Resort Hotel. Contact: Mildred S. Seelig, Amer. Col. of Nutrition, P.O. Box 831, White Plains, NY 10602.

September 23-26: CARIBBEAN AQUACULTURE AND TRADE EXPO '87. San Juan, Puerto Rico. Contact: Howard Ross, Box 13564, San Juan, PR 00908. Tel.: (809) 728-0905.

October 4-7: NATIONAL ASSOCIATION OF STATE DEPARTMENTS OF AGRICULTURE ANNUAL MEETING. Atlanta, GA. Contact: (202) 628-1566.

October 4-7: 41st ANNUAL CONFERENCE OF THE SOUTHEASTERN ASSOCIATION OF FISH

AND WILDLIFE AGENCIES. Mobile, AL. Contact: Sam Spencer, (205) 261-3465.

October 4-8: ASIS 50TH ANNIVERSARY CONFERENCE. Boston, MA. "Information: The Transformation of Society." Contact: American Society for Information Science, 1424 16th Street, N.W., Washington, DC 20036.

October 4-8: NATIONAL ASSOCIATION OF EXTENSION HOME ECONOMISTS ANNUAL MEETING. Louisville, KY. Contact: (309) 364-2356.

October 5-9: 13th ANNUAL CONFERENCE, INTERNATIONAL ASSOCIATION OF MARINE SCIENCE LIBRARIES AND INFORMATION CENTERS. Halifax, Nova Scotia, Canada. Contact: Bill Goff, Scripps Inst. of Oceanography Library, Univ. of Calif/San Diego, La Jolla, CA 92093. Tel.: (619) 534-1229.

October 6-7: AMERICAN HEALTH FOUNDATIONS FOOD AND NUTRITION CONFERENCE. New York, NY. Contact: (301) 436-7725. USDA Speaker: Laura S. Sims, HNIS Administrator.

October 7-9: U.S.-MEXICO AGRICULTURAL INTERDEPENDENCE MEETING. Mazatlan, Mexico. Contact: (202) 447-4256. USDA Speaker: Assistant Secretary Kenneth A. Gilles.

October 8-11: EXPO '87. Chicago, IL, McCormick Place North. Contact: American Meat Institute, P. O. Box 3556, Washington, DC 20007. USDA Speaker: Deputy Assistant Secretary Ewen M. Wilson.

October 11-12: INTERNATIONAL AGRIBUSINESS FORUM. Alexandria, VA. Radisson Mark Plaza Hotel. Contact: Am. Soc. of Agr'l Consultants, Enterprise Center, 8301 Greensboro Dr., Suite 260, McLean, VA 22102.

October 12-14: AMERICAN SOCIETY OF AGRICULTURAL CONSULTANTS ANNUAL MEETING. Contact: Am. Soc. Agr'l Consultants, Enterprise Center, 8301 Greensboro Dr., Suite 260, McLean, VA 22102.

October 14-17: NATIONAL FEED INGREDIENTS ASSOCIATION ANNUAL MEETING. Boston, MA, Westin Copper Place. Contact: (515) 225-9611.

AGRICULTURE DATEBOOK (Continued p. 19)





## PUBLICATIONS EXCHANGE

### SURPLUS PUBLICATIONS

The National Agricultural Library will make available the following surplus publications to any interested organization that regularly sends free publications to NAL, including most Federal, land-grant, and agricultural research institutions as well as many others. Foreign institutions will need to provide a U.S. mailing address or make other special arrangements with U.S. sources for shipment of material. Listed titles may be requested up to six months following announcement.

If interested, please write to: National Agricultural Library, USDA, Attn: Gift and Exchange, Room 002, Beltsville, MD 20705 (enclose an addressed label); or call Susan Fugate, (301) 344-3866.

American Association of Veterinary Laboratory Diagnosticians. 17th, 1974; 20th, 1977; 22nd, 1979; 24th-28th, 1981-1985.

American Journal of Veterinary Research. Vol. 24-47, 1963-1986.

Avian Disease. Vol. 1-12, 1957-1968; 16-28, 1972-1984.

Environmental Science and Technology. Vol. 1-10, 1967-1976.

Evolution. Vol. 28, 1974; 32-36, 1974-1982.

Iowa Veterinarian. Vol. 42-44, 1970-1973.

Journal of Agricultural Research. Vol. 9-70, 1917-1945.

Journal of the American Veterinary Medical Association. Vol. 143-189, 1963-1986.

Journal of Economic Literature. Vol. 8-16, 1970-1978.

Tetrahedron. Vol. 40-42, 1984-1986.

Tetrahedron Letters. Vol. 25-27, 1984-1986.

Soil Science Society of America Journal. Vol. 44-48, 1980-1984.

Statistical Theory and Method Abstracts. Vol. 3-16, 1962-1975.

### SURPLUS RUSSIAN PUBLICATIONS

Ecology of Earthworms and Their Effect on the Fertility of Soils in the Lithuanian SSR. 1975.

The Economic Basis of Industrial Systems in Agriculture. Kishinev, 1978.

Economic-Mathematical Methods of Planning and Analysis of Agricultural Production. Novosibirsk, 1969.

Economic Problems Related to Scientific-Technological Progress in Agriculture. Moskva, 1975.

Feeding Sheep with Single Feeds. Moskva, 1976.

Handbook for the Farmer. Petrozavodsk, 1967.

Haymaking and Pastures in a Drainage Zone. 1985.

The Hydrometeorological Regime and the Productivity of Irrigated Corn. Leningrad, 1983.

Industrial Storage of Fruit. Moskva, 1981.

Land Drainage Under Conditions of Hilly Relief. Moskva, 1983.

Mechanization of Work in Sheep Farming. Moskva, 1974.

Organization and Perfection of State Purchasing of Potatoes. Moskva, 1973.

Production on a Commercial Basis of Products of Sheep Breeding. Moskva, 1978.

Results and Perspectives. Moskva, 1967.



## SERIAL GAPS

The National Agricultural Library identifies gaps in the national collection through collection maintenance activities and patron requests. We appreciate your donation of the following publications needed to complete collections. If you have questions, call Susan Fugate, Gift and Exchange Program, (301) 344-3866.

Send items to: National Agricultural Library, Gift and Exchange Program, Room 002G, Beltsville, MD 20705

Agri News. Iowa Crop and Livestock Reporting Service. 1982, 1983.

Agricultural Engineering Reports. University of Melbourne, Australia. No. 29-31, 38-44, 46-47, 56, 66, 68, 74, 77, 1975-1986.

Annual Report, Canada Grains Council, Winnipeg, Manitoba. 1982.

Annual Report. Export-Import Bank of the United States, Washington, DC. 1977, 1979, 1982.

British Poultry Science. Vol. 1-6, 1959-1964; 23 (3-6), 1982.

Canada Grains Industry: Statistical Handbook. Canada Grains Council, Winnipeg, Manitoba. 1980, 1981, 1982, 1985.

Canadian Horticultural Council: Annual Report of the Committee on Horticultural Research. 1961, 1963, 1964, 1971, 1981, 1984.

Chilton's I & CS: The Industrial and Process Control Magazine. Vol. 58 (7), 1985.

Chinchilla World Trade Journal. No. 8, 1978; 10, 1985.

Communication. University of Zambia, Institute for African Studies, Lusaka. No. 14, 1978; 16, 1980.

Environmental Impact Statement on the AID Pest Management Program. U.S. Agency for International Development, Dept. of State, Washington, DC. Vol. 1, 1977.

Forest and Range Resource Analysis and Five-Year Program Summary. Ministry of Forestry, Victoria, BC, Canada. 1980.

Indiana Prairie Farmer. Vol. 151 (1-16, 18-20, 23), 1979.

Informacion Agricola Panemena. Instituto de Investigacion Agropecuaria de Panama, Centro de Informacion y Documentacion Agropecuaria. Vol. 2 (1), 1982.


Nordeuropaeisk Mejeri Tidsskrift. Van Lose, Denmark. Vol. 51 (3), 1985.

Occasional Papers of the Museum of Zoology. University of Michigan. No. 705, 1983; 709, 1985.

Pediatric Annals. Slack Incorporated. Thorofare, NJ. Vol. 1-8, 1972-1979; 9 (12), 1980.

Report on the Monongahela River. Prepared by the West Virginia Dept. of Natural Resources, Division of Water Resources. Charleston, WV. Vol. II-B, III and IV, 1973.


Schriftenreihe der Eidg. Forschungsanstalt / Reports of the Swiss Federal Research Station for Farm Management and Agricultural Engineering. Der Forschungsanstalt, Tanikon, Switzerland. No. 1-3, 1970-1973.

Virginia Journal of Science. Vol. 35 (1-4), 1984; 36 (1-4), 1985; 37 (1-4), 1986; 38 (1-4), 1987. 

## AGRICULTURE DATEBOOK (Cont'd from p. 17)

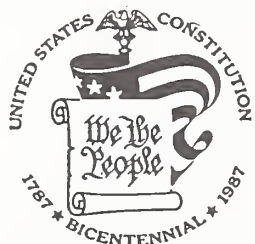
October 19-23: AMERICAN DIETETIC ASSOCIATION ANNUAL MEETING. Atlanta, GA. USDA Speaker: Laura S. Sims, HNIS Administrator. Contact: (301) 436-7725.

October 21-23: INDUSTRIAL BIOTECHNOLOGY ASSOCIATION ANNUAL MEETING. Washington, DC. USDA Speaker: Assistant Secretary Kenneth A. Gilles. Contact: (202) 447-4256.

October 22-23: NATIONAL MEETING ON POULTRY HEALTH & CONDEMNATIONS. Ocean City, MD, Sheraton Fontainebleau Inn. Contact: Delmarva Poultry Industry, Inc., R.D. 2, Box 47, Georgetown, DE 19947. 

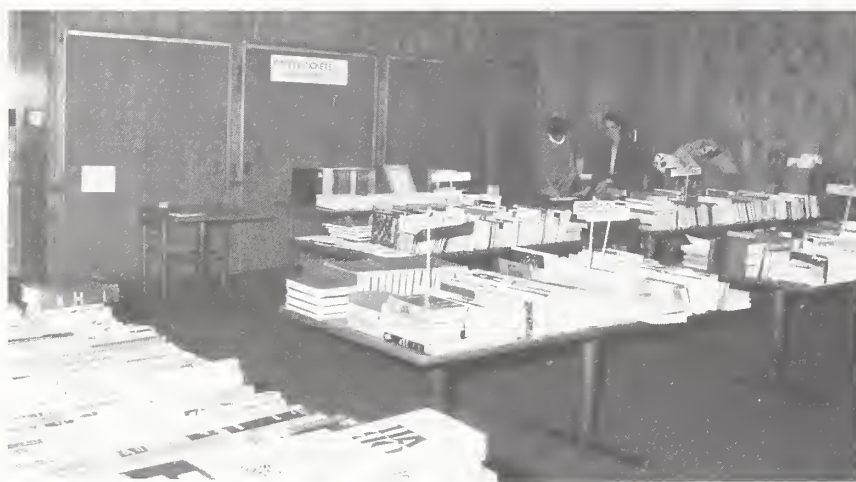
United States Department of Agriculture  
National Agricultural Library  
ALIN Editor, Room 203  
Beltsville, Maryland 20705

OFFICIAL BUSINESS  
Penalty for Private Use, \$300



AGRICULTURAL LIBRARIES  
INFORMATION NOTES  
ISSN 0095-2699

If you wish to be removed from the mailing list for this publication check here ☐ and return this page to the above address. If change is required enter on address label and return.



#### NAL BOOK FAIR, MAY 28, 1987

The photos on the left show the Book Fair sponsored by the Associates NAL, Inc.: (above) just prior to opening; (below) in-progress. The five-hour sale of donated books realized \$700. The volunteer efforts of NAL staff and Associates members contributed to its tremendous success.



AGRICULTURAL LIBRARIES  
INFORMATION NOTES (ISSN 0095-2699) provides a channel of communication to technical information specialists, librarians, extension workers, researchers, and scientists on agricultural information activities. E. M. Farkas, Chief, Education and Information; Joseph N. Swab, Editor; Marilyn M. Jacobs, Assistant Editor; Dan Starr, Photographer. (301) 344-3937.